

Abstract

(Problems)

A reaction container (apparatus) with a high efficiency, which can overcome problems of common chemically processing apparatuses using a solvent set where the compatible state and the separated state are reversibly changeable depending on a temperature, i.e. problems of the apparatus disclosed in Japanese Patent Application 2002-198242, namely the separation over time and spatial separation between compatible state and separated state.

(Means for Solving the Problems)

A temperature distribution is formed inside a reaction container, such that the temperature of one (optional) partial region inside the reaction container is the temperature for making first and second solvent solutions at a compatible state or a higher temperature, while the temperature of the other partial region is the temperature for making the solutions at a separated state or a lower temperature. Additionally, a reaction-promoting energy such as light and electricity is fed to the part at the compatible state.